irop//cme34 as one colid on the contrary, it coming. for infinit number players, fraying witness her a rack close scolid as marble x under it on about a rach of stone come tection. how the arm Mert, com thail, strutepheric morning in halive form, is laden with carbonic weid, derived from the is itself, or from decaying regula metter, and water containing carloonic acid on whiten has the property partnetty dissbing the limestone - not merely overing it away . How to carbonic acid acts is pen to discussion but the part remains, address much to account on the particular rock forms of seedler gordestied Mis district. add a Mis the winner expect-ofweathering upon wells ground hertner aronghouter how to water percelet samps to age loves thate, preges, wills horse to rock not welds it as it might burst a pitate leaves a pasure exposed to the further action the ottensplered mich is In ever weering among as well as dissolving to yielding limestone. This is the hickory of the fine scars, which stand Cil comany potresse up & down the Wharf welly Jupping water has found its way through the love prints hat extente carbonic acid in whether has eaten out a very through dens layers, debris broken off byth on cause or the other has faller with has ythe cliff, until their I stant , a round have pare of timestone, with herder larger scharter out lite courses of heavy masonry steeps as the walls for castle, very like a castle in effect. of crewen or our entitly to almospheric demination or wided, they are the sole pictureign feature the

ilopikune34 for jet long chaight gells with good level as to coping of wall reliep unbroken sides, when as in Buchden Rass, whom tellewell yman Shut in between two prompoly tells it is very your impresoned between colored Kilney Cray, by comester in Marget ale as Scars of gregleswick new Lette, in Relibertale a melhom love a gordal Jean in whim airehale overey fine examples plumestone tears to the last indeed, present som of the princes to separate from the separate from the servery in Ingland, I that have to receive the presents to mound wind go peet section of a vast amplitheels, with projecting course shish anay represent teins feeds Asom soo feet in height. At the good - gothe cliff is a low with to month of acan thom This care waves a clear stream, the impant Were, and mis is all the original some of the river: above the cove, on the great limestone plateau of malham, is a malham Yarm, Afring This Larn warres a steam, which plows on halpamile above fromt; then, makes its eccape through prouves in the rock, eats out a way for Maely knows the bounds of the plateen, is mereared by other underground theams, seems to light your as we have seen at - to prot of Inelham cove. Here we have an example of the history of care - metring: plowing water sinks known to prosure ofthe rock, then, partly by erosion partly by dissolution ofthe rock substance,

Ath greatest amost thrising ceats findustry in the empire. I'm peal one gield reaches down into tothingsen but an ancero is with that part git will he is within yorkshir. A strip ofthe Lover love Greams upon which stand leads, tradfort, Nelijas, Hudderspell, borders to Central ones of the " middle was mesmes, whereon are trakepet Barnsley, Eneppield, Bornerham. Resheps to hear known enals you some he measures in epochasiis ar, the Better Bed total greedynd, a bright - wal, very pre from sulps need in orthing the Low known bronstone. In letter exists in layers, meres more han two peet in michians, per above the Eval Seams, speckaps, inces its celebrity for superin longthrees as much to the excellence y to Better Bed coal employed in smelling & propagation. The trusters out new Leeds is another valuable bed, the season heaving to unusual makiness prix get in some places. Afthe middle coal measures, tocalled as heny er deeply bried than the love measure, perhaps the most valuable seam is the Celhetore coal, reaching from the southern Coundary of the country as far north or Carthan above Bernsley. In seam las a Puchness game from the halffelt though it is divided into two deds by a layer punder clay, a ferinches thick. Inis is excellent-housely coal as greet deal of it is sent to dondon. This is succeeded to the worth by the Blocking

110 p14 muc34 Coal, a seam at about to same level of the Selkstone ent- ypones quality, which reaches northwest nearly to Leeds. M's much higher level is the celetrate Burneley Bed, the most-prolipie in yorkenin A seam min or ten feet in michners in 12 neighbourhood of Barnsley to but Prinning out they med cheppiels to some form or pive feet a wet how roft- up abottern layers med food unschold eval, will the firmer close central jostims supply steem . meting one. In come now to the question under what conditions were new coal bets law down - the nighty laid foundation the prospering got met-riding? We must verry our unagmetion hack to aperiod which is can only describe is many millions gyears ago, Lornary Maye han letter place in the mitures, that, wer the coal meennes in position, they would lie at a depth of jife, - nonsound peet that is may would a utterty simpristed and greech. But - Bringhord - the long jeologie periods " Mich have elipsed some the laying down you and the crust ofthe earth has been seen undergon many plutonce upheavals causing cracks o 'faults' in the solid strele above. almos the coal has been trongs, just with surpre at any rate within measurable two hable thatere, this state with in lasty unique; it is to make prime any considerable part of the earther crust. This is, roughly, it matory: - It's how seen that that area including to centre of the Birtish Isles which we have sporter open recupied by an orland Lea was subject to alternate eras of elevations

as dry land, submergence as the hel pa lea in late; het is to vary the sandy tottom was surfatly always either vising very very preturely a sinking as gradually then it rederses above to vater level it was any land, when it- had swort below that level it was the bollow for see, reach each change was to work of eges. Oran Murring each of meis periots pelevation, mies laid soil upon the sandy bottoms, & prests per upon them. It such greets as from in 120 Some latitudes now: to conditions ver deperent. The climate soil wer perhaps not worlde the Ath swamps which things to Lowton Lates of Butte arraise intering in the ging mexico. In equable lemperatur humans doil favoreda rank infined negetition, you make from thebonosses of pres. teits for the most perh but developed into frest trees some wity gut- high - Sepido dendra, Sigillaria + Colemites, agether ist tre-gerns, a mich underwood Aleases jerns, as sol Aprins on the highes levels. How there freets decayed, ver slowly intermerged, mer compressed with the carliest of hydraulic preises, the weight of the sea above them; how they forests wer overland by a new Santy see bottoms, which went though the som history opportuel elevation, spream jobs we ever increasing michness, then, prestitioning Then, unbunergance, as The last, how this was repeated egain ragain, how often, we have tom no mean of judging, not; gully a hundred different seams genel, each divided by the

under clay, which held with helds the roots of to presh have been laid her in the Lotte trales and field. This is to say There a hundred times within human rechon has the land viser, torm prests, where again enhoused. We cannot follow to workings, the Chemical changes shick took plue in their buries greats. The heating aturning Rech which with plea in the moist mass, its change with a pulpy condition wherein distinction vegetable forms breves, prist, or, war about entirely last +, lastly, on every into the head, which service while suntains negamilies with. We cannot ente with the details wish show the conditions which oftend during the formation of this is that jourtuines hed, and account for the differences in quality letureer and read: but enough has been said to account for the several strette ythe coal measures, - now, the juit a semidation of the old see. bottom, now chal, the soil grives mud laid upon the devoted candbank, wherein the greet freel, then enal; then combatone again, toon. Here low, us have to reason my on well bed though prid it convenient underlying wal hed into Parte Deries - lower, middle, & upper. And the Caying down you Carboniquem strate mind successive periods oformations have actively work with appearing yorkships in the ouriously consecutive rdes we have orticed - the Remain strate, Lies, lies, bies, being record appears, appear as the with the rel of printering.

NOPITENCES4 it is worth hil to preside the character of their lumestone stratifit. In Swal ar. I here, air stubble have all cut muy Their upper valleys out - ofthe solid limestons Ameis upper course give opportunity to study to Margedale, telester Burnsall & Leeplat, is, perhys the most heartight ath man characteristic of this valleys. Like the Lee, The Where is "Condemned to min a channell od way D'es solid sheets opmarble prey,"of the clear brown waters, I home, from the pearmons when they rise course through a clean Swept channel, figurey slabs. Every now & men, enormans brolders breek the current Slowing the waters into plany; when, The pel her ofthe rock is set offly drapails the hicked-darked mosses. Alters hangines to Streams a little higher, are hazel michels with brick arowan In variety; or in the Brickets of the limeston hills above, the cold pury peen of the ask is the prevailing tint, i spenial peature of this limeston country is the lovely lawn. lite meadow speatures with grill The lives valley; laws - like that is, after to good second catting ofthe hay, hur lovely always go it is to property ofthe limeston When a close, short - vividly preenting . people Abrighter than the delicions turpy the chelk, Month lessjin telestie. In flowers are very abundant- slovely; to hand some jungle will per

wopi8 cmc34 Geranium, we on saxipress, rock cisms several species sporshed, The yellow pansy, ming me , warming to rem. In person heavily to wiely gthe more whiteens is another feature of the limestone convoley, amight be designed is acceloff to the pale rock; while the line top grany a fell opers a pacadie to the gen wheeler. Ihmor you wish fell but will not us its whereabouts, when the hill top is pared with timestone glass like enormous greatestones. tin the crevies, afort or so in width believes perneries, every plant-perpet, adelicate in hus so greered under places. Her you print In Jemestone polypoly, Relypodium tobertianum the green epleanword, amyrium Viride ). the black maiden hair Spleenwood, O. Odiantum nigrum), to seel gern, (Ceterach Officinarum) to common harts tongue (Scolopendrium Volgare), very abundant bleantight, in gast all to ferns peculiar to the limeston. Ker, on his hill sindeed on all the hills on the beds of the rivers & scallered freely Mringhout Crowen, are oddly chaped masses, like huge aleaches weather worn brinks frees the teaslain on to fround for centuries I much like regeletite or animal remains as they lotte there ar limedone boulders, worm into the gamtastic Shapes by the action frates. Indeed, all to peculies weny pieuresque rock oceneny oftrewer is due limerons rocks. He great Michiner flimentine which overlied min part of yorkshire is not to be months at

110/019cme34 region presenting very different landscapes Ameeting very different jeological conditions. Her, golling still to order oftim, shequining as To horth, we have grist, the hothe carter monlands with relatation not very unlike that you Western Generaland, month supported in a cocks pper mor recent outin. going courts, we cross the Val of Bricking. Jul grunden spetitity verdant speril. itsnext- ancieds the chall you wolds, slastly Holderness, consisting precent deposits, the debris of the rest of the country. Somtimately on the condicap, or, Muryor. to africultured communiquetiting industries of a district connected with its pertrepial frameing that yorkshine may be roughly perselled out into Som six or seven series plandage Corresponding with the peloqued enatured ding In Educian webs, infinitely to oldest series we have andrealed. Which yorkshir exhibits - appear only in one in two places, you ar surprises to com upon gravies of bluish green slatts in the neighbourhood of Ingleton, & again, to the north of sedburgh the same herd rocks appear. How for the Selection rocks underlie to limestone us need not miquin her. but the landscape sindustries ymstern ynhabir depend so largely on the Contompions Leves that is arrest pies a mor detailed account In remote peologie time, a candlacked see occupied the centre of the space now occupied by

NOPZOUNC34 to British Lales - a see with many shell pick, weal, premnipers, multidutinous marin animal which granced their sheets is harden parts of the carbonet flime which the rivers galling into this see and brong M- down in solution. as countless peneral Ther marine creatures died to hard parment muy had secreted gell to m bed ofthe see & the cours gages, this perpetually many deposit ophinesters nearly choked the see, snowinds for in the craver district, his assummeter 1 th among permains operarin animals reaches a michines of 500 or 200 feet, while in Derbyshire, which was also included in the bottom of this arrient-see, a depth of soos ful has been openeured. Her we have the rugs An Phonntain , Carbonigerons dimention Which forms a district of snighter beauty & peculiar character in the north. west pro County. In may often set the the emesting is simply a mass gabells, corels, enermites, & but more commonly free shells are cobiler in an examel that the combined was tooks like institutey- prey stone rock. The gradual elevation strandensing with dry land of mis Sea. bottom is a process we can conceived. But how is it that this enormously thick who floor oflimestine we have spoken of should not a coextensive into the ancient-cee in Johnton, for melance, where it was laid, should not trated per with to the country? to the month, west? It does extend in his menner, but in the south reach, it is lines under an evarious depth of mor ween deposits. Now there deposit were laid, we may consider later, but, in the meenting